Coalition Multinational Division (MND) Network

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- Statustenna location incorporated into Victory Base TCF / Satellite park plan
- 1 Hub, 4 Major nodes, &
 2 Minor nodes installed
 by 30 June to replace
 existing capability
- Remaining 14 Nodes by 16 July (4 Major & 10 Minor)



Vic Base - "KICC-ville" JAN 2004



CMN Overview

- OR KICC 2
- IP Based Bandwidth-on-Demand SATCOM network
 - Full-Mesh, Single-hop Voice Network
 - Broadband Hub & Spoke Data Network
- Network provides Voice and Data services
 - Serving 1000+ voice lines
 - LAN to WAN Data Network
- Economic utilization of leased commercial transponder
 - Multi-Frequency TDMA provides 3-4X reduction in required transponders
- Tested & Proven COTS equipment enables fast deployment and low cost
 - Network deployed and operational in 6 months
 - Terminals $\frac{1}{2}$ $\frac{1}{4}$ cost of non-COTS solutions with comparable capacity



CMN - Network Services



- Secure Voice Services
 - Serving 1000+ voice lines
 - IPSEC TRANSEC with STU/STE/FNBDT/DSVT COMSEC
 - Single Hop, IP Routed Secure Voice
 - 16 to 32 analog voice lines per site
- Secure Data Services
 - LAN to WAN Data Network
 - IPSEC TRANSEC with TACLANE COMSEC
 - 2 Network Classification Levels
 - 512kb/s 8 Mb/s data per site



CMN - Communications

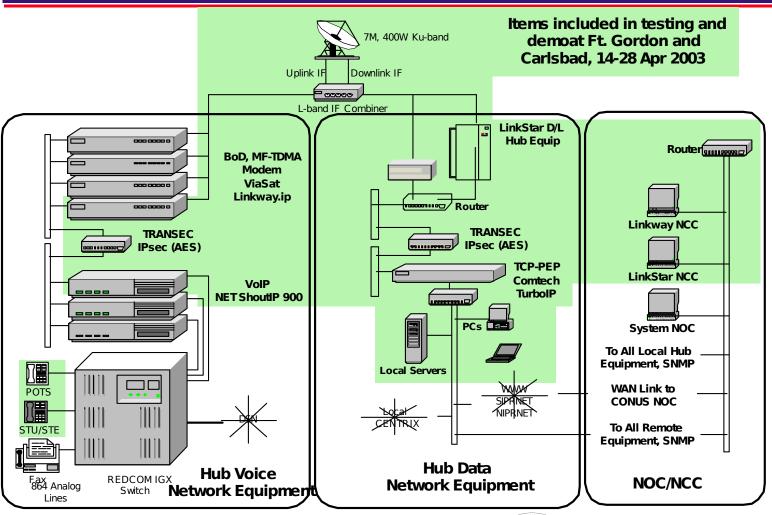


Design

- 72 MHz of Ku-bandwidth
 - Transponder lease on Eutelsat W5 satellite
 - Sufficient to support over 60 remote terminals
- Remote terminals dynamically request bandwidth from HUB
 - HUB provides dynamic TDMA timeslot assignments to each Remote Terminal
 - Remote-to-Remote communications can provide full mesh network
 - Greatly improves voice communications quality
 - Greatly improves secure telephony operations and reliability
- Bandwidth-on-Demand saves transponder lease costs
 - ~3-4X reduction in number of transponders required
 - Multiplexing of bursty data and voice traffic
 - Voice quality maintained via IP QoS implementation
- Single IP based network for voice and data
 - Voice services provided via IP routed VoIP
 - TCP accelerator provides maximum IP performance over long delay satellite

CMN - Hub Architecture

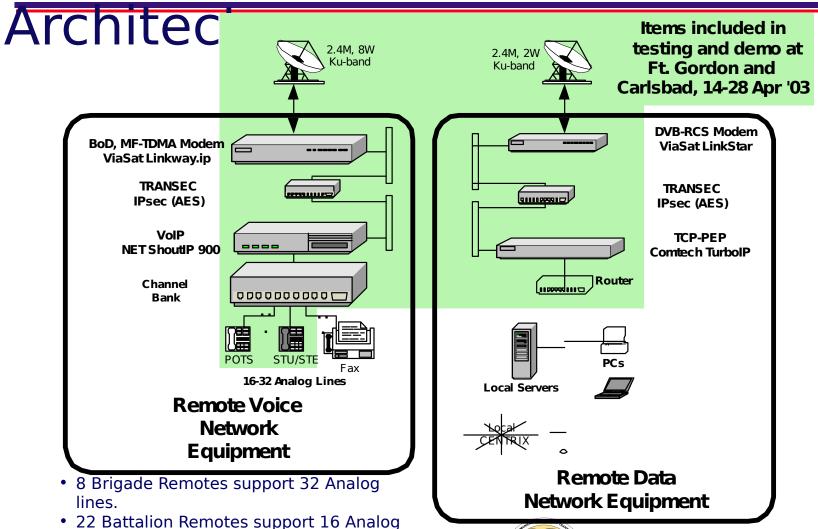




CMN - Remote Node

lines.





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CMN System NOC

